

**Notice of Allowability**

Application No.

10/637,716

Examiner

Patrick Miller

Applicant(s)

KERNER ET AL.

Art Unit

2837

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/05/05.
2. ☒ The allowed claim(s) is/are 5,6,8,14,15,17-28 and 31-34.
3. ☒ The drawings filed on 22 December 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**MARLON T. FLETCHER**  
PRIMARY EXAMINER

## **DETAILED ACTION**

### ***Allowable Subject Matter***

1. Claims 5, 6, 8, 14, 15, 17-28, and 31-34 are allowed.
2. The following is an examiner's statement of reasons for allowance:
  - With respect to claims 5 and 6, the Prior Art does not disclose a method for determining a mass moment of inertia of an electric motor system with the limitations disclosed and where the at least one motor speed comprises two constant motor speeds, and the two constant motor speeds have the same value, but opposite signs.
  - With respect to claim 8, the Prior Art does not disclose the limitations of claims 1 and 7 and where the determined compensation current is formed by the use of feed-forward current of a revolution speed controller.
  - With respect to claims 14 and 15, the Prior Art does not disclose calculating the mass moment of inertia of the electric motor drive system based on the determined acceleration current and where the calculation involves equating two formulations of the defined acceleration of the drive motor.
  - With respect to claims 17-20, the Prior Art does not disclose calculating the mass moment of inertia of the electric motor drive system based on the determined acceleration current and where the calculating comprises determining a mass moment of inertia of a load of the drive system from a difference between a total mass moment of inertia of the drive system and a mass moment of inertia of the drive motor, and calculating a ratio of the mass moment of inertia of the drive motor to the mass moment of inertia of the load.

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- With respect to claims 21 and 22, the Prior Art does not disclose the at least two motor speeds having the same value but opposite signs.
  - With respect to claims 23 and 24, the Prior Art does not disclose the calculating, as claimed, comprising equating two formulations of an acceleration of the drive motor.
  - With respect to claims 25-28 and 31-34, the Prior Art does not disclose the calculating step, as claimed, further comprising calculating a ratio of the mass moment of inertia of the drive motor to the mass moment of inertia of the load.
3. Therefore, based on the arguments and amendments presented by the Applicant, the Examiner acknowledges the Prior Art fails to make obvious the Applicant's claimed invention.
4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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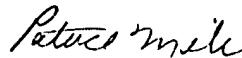
*Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick Miller whose telephone number is 571-272-2070. The examiner can normally be reached on M-F, 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on 571-272-2800 ext 41. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3431.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Patrick Miller  
Examiner  
Art Unit 2837

pm  
August 16, 2005



MARLON T. FLETCHER  
PRIMARY EXAMINER